



Bill of Materials for the FAN251030 Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	CAP CER 47PF 25V X7R 0603	47pF	±10%	sm c 0603	Wurth	885012006036	YES	YES
C2	1	CAP CER 0.047UF 10V X7R 0603	47nF	±10%	sm c 0603	Wurth	885012206018	YES	YES
C3,C6	2	CAP CER 2.2UF 10V X7R 0603	2.2uF	±10%	SM C 0603	KEMET	C0603C225K9RACTU	YES	YES
C4	1	CAP CER 0.47UF 25V X7R 0603	0.47uF	±10%	SM C 0603	Wurth	885012206075	YES	YES
C5	1	CAP CER 0.1UF 25V X7R 0603	0.1uF	±10%	sm c 0603	TDK	C1608X7R1E104K080AA	YES	YES
C7	1		DNP		SM C 0805			YES	YES
C8	1	CAP CER 0.1UF 25V X7R 0603	0.1uF/25V	±10%	sm c 0603	TDK	C1608X7R1E104K080AA	YES	YES
C9,C10,C11,C12,C13,C14,C15,C16,C17,C32	10	CAP CER 100UF 6.3V XSR 1206	100uF/6.3V	±20%	SM_C_1206	Murata	GRM31CR60J107KE39L	YES	YES
C18,C25	2		DNP		poscap_d4			YES	YES
C19,C20,C21,C22,C23,C24,C29,C30	8	CAP CER 22UF 25V X7R 1210	22uF/25V	±20%	smc_1210	Wurth	885012209006	YES	YES
C26	1	CAP CER 150PF 50V X7R 0603	150pF	±10%	sm c 0603	Wurth	885012206078	YES	YES
C27	1	CAP CER 10000PF 50V X7R 0603	10mF	±10%	sm c 0603	KEMET	C0603C103K5RACTU	YES	YES
C28	1	CAP CER 5600PF 50V X7R 0603	5.6nF	±10%	sm c 0603	KEMET	C0603C562K5RACTU	YES	YES
C31	1		DNP		Oscon_f12			YES	YES
C33	1	CAP CER 10UF 10V X7R 0805	10uF/6.3V	±20%	smc0805	Murata	GRM21BR71A106KA73K	YES	YES
FD1,FD2,FD3,FD4	4		Fiducial		FIDUCIAL			YES	YES
JP1	1	CONN HEADER VERT 2POS 2.54MM	VIN_EN		Header_2P	TE Connectivity	87224-2	YES	YES
JP2	1	CONN HEADER VERT 2POS 2.54MM	Output		Header_2P	TE Connectivity	87224-2	YES	YES
JP4	1	CONN HEADER VERT 2POS 2.54MM	Vb_EN		Header_2P	TE Connectivity	87224-2	YES	YES
JP5	1	CONN HEADER VERT 2POS 2.54MM	Vb_VCC		Header_2P	TE Connectivity	87224-2	YES	YES
J1	1	CONN PC PIN CIRC 0.040DIA GOLD	Loop-		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J2	1	CONN PC PIN CIRC 0.040DIA GOLD	Loop+		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J3	1	CONN PC PIN CIRC 0.040DIA GOLD	EN		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J4	1	CONN PC PIN CIRC 0.040DIA GOLD	VCC		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J5	1	CONN PC PIN CIRC 0.040DIA GOLD	VCC_GND		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J7	1	CONN PC PIN CIRC 0.040DIA GOLD	VOUT		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J8	1	CONN PC PIN CIRC 0.040DIA GOLD	VOUT_PGND		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J9	1	CONN PC PIN CIRC 0.040DIA GOLD	PG		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J10	1	CONN PC PIN CIRC 0.040DIA GOLD	VB		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J11	1	CONN PC PIN CIRC 0.040DIA GOLD	VB_GND		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J12	1	CONN PC PIN CIRC 0.040DIA GOLD	SYNC		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J13	1	CONN PC PIN CIRC 0.040DIA GOLD	SALRT		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J14	1	CONN PC PIN CIRC 0.040DIA GOLD	SDA		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J15	1	CONN PC PIN CIRC 0.040DIA GOLD	SCL		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J16	1	CONN PC PIN CIRC 0.040DIA GOLD	GND		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J17	1	CONN BANANA JACK SOLDER	VIN		Vin_con_204	Keystone Electronics	575-4	YES	YES
J18	1	CONN BANANA JACK SOLDER	PGND		Vin_con_204	Keystone Electronics	575-4	YES	YES
J19	1		VOUT		PWR_LUG_155_TB			YES	YES
J20	1		PGND		PWR_LUG_155_TB			YES	YES
J21	1	CONN PC PIN CIRC 0.040DIA GOLD	PVIN		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J22	1	CONN PC PIN CIRC 0.040DIA GOLD	PVIN_PGND		Gold_Pin_Conn_43	Mill-Max Manufacturing Corp.	3103-2-00-21-00-00-08-0	YES	YES
J14	1	CONN HEADER VERT 10POS 2.54MM	dgtsCOM		5103308-1	TE Connectivity	5103308-1	YES	YES
J115,J116	2	CONN UMCC JACK STR 50OHM SMD	UFL		sma	TE Connectivity	1909763-1	YES	YES
KC1,KC2	2		kelvin		kelvin			YES	YES
L1	1	FIXED IND 1UH 30A 2.3 MOHM SMD	1uH	±20%	WE_Inductor_309_xx	Pulse Electronics Power	PA4343.102NLT	NO	YES
MH1,MH2,MH3,MH4	4		SH2		SH_CIR3R8_DR3R2			YES	YES
R1	1	RES SMD 110 OHM 1% 1/10W 0603	110	1%	sm_r_0603	Yageo	RC0603FR-07110RL	YES	YES
R2,R3,R14,R15,R16,R19,R40	7		DNP		sm_r_0603			YES	YES
R4	1	RES SMD 470K OHM 1% 1/10W 0603	470k	1%	sm r 0603	Vishay Dale	CRCW0603470KFKEA	YES	YES
R5	1	RES 10 OHM 1% 1/10W 0603	10	1%	sm r 0603	Vishay Dale	CRCW060310R0FKEAC	YES	YES
R6,R9,R10,R13,R20,R25	6	RES SMD 0 OHM JUMPER 1/10W 0603	0		sm_r_0603	DALE	CRCW0603000020EA	YES	YES
R7,R8	2	RES SMD 100K OHM 1% 1/10W 0603	100k	1%	sm r 0603	VISHAY	CRCW0603100KFKEA	YES	YES
R11	1	RES SMD 4.99K OHM 1% 1/10W 0603	5k	1%	sm r 0603	Vishay Dale	CRCW0603499KFKEA	YES	YES
R12	1	RES SMD 4.7K OHM 1% 1/10W 0603	4.7k	1%	sm r 0603	Vishay Dale	CRCW0603470KFKEA	YES	YES
R16	1	RES SMD 7.87K OHM 1% 1/10W 0604	7.87k	1%	sm r 0603	Vishay Dale	CRCW0603787KFKEB	YES	YES
R17	1		open		SM_R_0805			YES	YES
R18	1	RES SMD 1 OHM 5% 1/10W 0603	1	5%	sm r 0603	Vishay Dale	CRCW06031R00JNEA	YES	YES
R21,R22,R23	3	RES SMD 10K OHM 1% 1/10W 0603	10k	1%	sm r 0603	DALE	CRCW060310K0FKEA	YES	YES
TP1	1		BOOT		08mm_TP			YES	YES
TP2	1		PH		08mm_TP			YES	YES
TP3	1		GH		08mm_TP			YES	YES
TP4	1		VSEN+		08mm_TP			YES	YES
TP5	1		VSEN-		08mm_TP			YES	YES
TP6	1		COMP		08mm_TP			YES	YES
TP7	1		VDIF		08mm_TP			YES	YES
TP8	1		VCC		08mm_TP			YES	YES
TP10	1		FB		08mm_TP			YES	YES
TP11	1		GND		08mm_TP			YES	YES
TP12	1		GL		08mm_TP			YES	YES
TP13	1		SW		08mm_TP			YES	YES
TP14,TP16,TP19	3		PGND		08mm_TP			YES	YES
TP15	1		PVCC		08mm_TP			YES	YES
TP17	1		VIN		08mm_TP			YES	YES
TP18	1		VSET		08mm_TP			YES	YES
U1	1		FAN2510XXMN		WQFN34 5x7, 0.5P	ON Semiconductor	FAN2510XXMN	NO	YES